



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**TMR-Pompano**  
Machine Id  
**17971 LIEBHERR A924C 957-33753**  
Component  
**Front Right Wheel Hub**  
Fluid  
**GEAR OIL SAE 85W140 (3 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DJJ0023223</b>	DJJ0008220	DJJ025042
Sample Date		Client Info		<b>03 Jul 2024</b>	14 Jan 2021	06 Dec 2018
Machine Age	hrs	Client Info		<b>0</b>	9319	7393
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	N/A
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>1070	<b>1</b>	177	116
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	1	<1
Lead	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>45	<b>1</b>	17	16
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

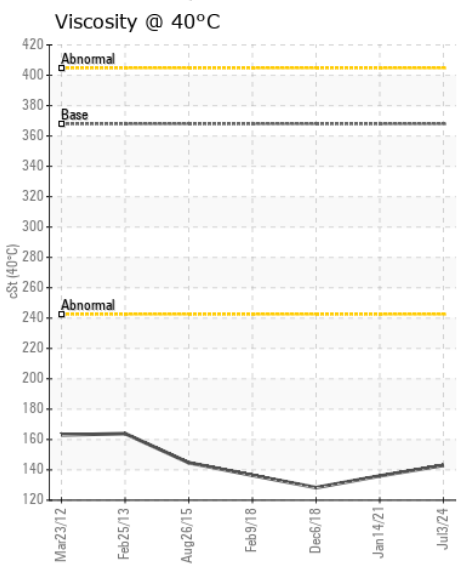
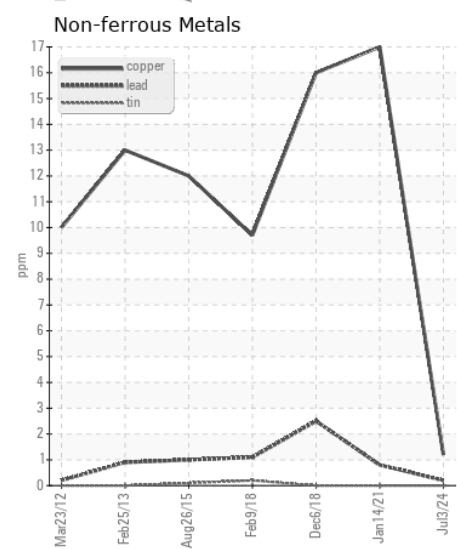
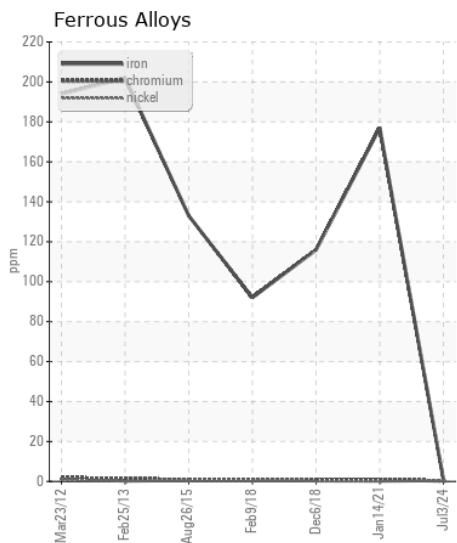
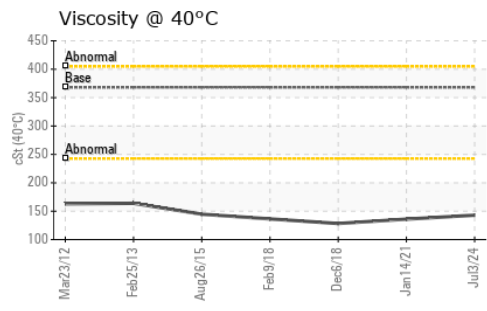
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>125	<b>&lt;1</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	278	256
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	4	7
Boron	ppm	ASTM D5185m	400	<b>9</b>	435	325
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	4	2
Manganese	ppm	ASTM D5185m		<b>0</b>	2	2
Magnesium	ppm	ASTM D5185m	12	<b>6</b>	11	2
Calcium	ppm	ASTM D5185m	150	<b>0</b>	53	41
Phosphorus	ppm	ASTM D5185m	1650	<b>630</b>	1501	1334
Zinc	ppm	ASTM D5185m	125	<b>5</b>	42	38
Sulfur	ppm	ASTM D5185m	22500	<b>15314</b>	17765	17953
Visc @ 40°C	cSt	ASTM D445	368	<b>143</b>	136	128.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0023223  
**Lab Number** : 06236524  
**Unique Number** : 11125358  
**Test Package** : CONST  
**Received** : 15 Jul 2024  
**Tested** : 16 Jul 2024  
**Diagnosed** : 17 Jul 2024 - Sean Felton

**TRADEMARK METALS RECYCLING - RIVIERA BEACH**  
 4661 DYER BLVD  
 WEST PALM BEACH, FL  
 US 33407  
 Contact: RYAN BOWDEN

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)